



### Active Line The versatile drive system

Custom, versatile, and modern: The Bosch Active Line makes exercise a pleasure and the eBike into an everyday companion as a matter of course. To the movies, into the countryside, or to dining with friends - with the Active Line, you simply get to your destination faster and more relaxed. For the on-board computer, you can choose between the fully networked Nyon or Intuvia with its basic functions. Bosch PowerPacks set the market standard in terms of weight, energy density, and range. Perfectly matched components are



### Your mobility is our drive

In the world of Bosch eBike Systems, the focus is on people. In the development of each product, we keep in mind what will really help you with eBiking. For individual needs, individual riding enjoyment, always the right drive – that is our claim.

### **Riding sensation**

Harmonious or powerful? The main thing is that it needs to feel natural. The Bosch riding sensation creates a unique eBike experience. Three sensors measure pedaling power, cadence, and speed more than 1000 times per second. This enables organic interplay between the rider and eBike.

### **Ergonomics**

The comfortable and safe handling of your eBike is always at the center of our product development. We keep user-friendliness and ergonomics in mind in particular. This is because the interaction between the rider and eBike only works optimally when components and controls optimally match the movements of the rider.

#### Range

In every Bosch drive system, perfectly matched components work together efficiently, allowing you to ride the maximum ranges with your pedelec.

#### Service

We challenge ourselves to meet the highest standards of quality and reliability. This applies to our drive system as well as our comprehensive service infrastructure. For this we train Bosch eBike Experts throughout Europe who are available at bike dealers to offer advice and support.

#### Design

Bosch eBike Systems sets trends. This applies not only in the technical and ergonomic sense but also in terms of aesthetics.

reddot design award

### The Bosch eBike system at a glance

On-board computer, Drive Unit, PowerPack – the components of the Active Line work together as members of a practiced, perfectly coordinated team. The result: a symbiotic connection between the rider and eBike and a thrillingly natural riding sensation.

#### Nyon

The all-in-one eBike on-board computer accompanies you from route planning to evaluation of the fitness data and is connected to the online portal and smartphone app. Nyon is the first fully networked ecosystem of the industry.







Using this clever control center, you control your pedelec experience easily and intuitively. Intuvia informs you clearly and reliably regarding all relevant information about your eBike system.

#### PowerPack

The powerful lithium-ion batteries are available with an energy content of 300, 400, and now even 500 Wh. A frame or rack variant can be chosen.







Drive Unit Active Cruise gives you a unique, natural, and relaxed riding experience up to 25 km/h. It is available in Platinum or Black. With optional backpedal function.

Active Line Active Line

### **Drive Unit Active**

### The versatile drive

Drive Unit Active supports your ride very harmoniously and provides a unique, natural riding experience. This drive extends your range and gets you to your destination faster and more relaxed. An increase in movement which not only keeps you fit but also is a lot of fun.



### Pure riding enjoyment thanks to the three-sensor concept

Three sensors for pedaling power, cadence, and speed ensure an optimum balance of forces with 1000 measurements per second. You receive perfectly coordinated, harmonious riding support at all times.

#### Quiet, sturdy, and durable

Due to direct processing of the sensor signals and the precise motor control, Drive Unit Active is optimized for minimum sound emissions and vibration. The secure chain run helps to keep the chain from being derailed and prevents the components from being subjected to undue strain. This reduces wear, maximizes comfort, and increases service life. Drive Unit Active is available in Platinum as well as Black versions.

#### Compact and lightweight

Bosch eBike drive systems set standards in matters of ergonomics and weight. The compact gear arrangement allows for optimal integration of the Drive Unit into the frame, giving you more ground clearance. The reduced volume makes the drive lightweight.

### Sporty riding, gentle shifting

While you are shifting, the drive adapts its torque automatically to the shifting process. This takes stress off the components and makes eBiking extremely comfortable.

### Backpedal

Drive Unit Active is available with backpedal function on request.





# **Technical specifications**Drive Unit Active

	Cruise 25 km/h	Cruise 25 km/h
Gear system type	Hub gear system	Derailleur system
Power	250 watts	250 watts
Support level (%)	TURBO: 225 SPORT: 150 TOUR: 100 ECO: 40	TURBO: 250 SPORT: 150 TOUR: 100 ECO: 40
Maximum possible drive torque (Nm) (converted to a gear ratio of 1:1 crankset to chainring)	TURBO: 48 SPORT: 45 TOUR: 40 ECO: 35	TURBO: 50 SPORT: 45 TOUR: 40 ECO: 35
Maximum cadence (r/min) with drive support	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 90	TURBO: 100 SPORT: 100 TOUR: 100 ECO: 90
Start-up behavior	harmonious	harmonious
Max. support up to	25 km/h	25 km/h
Backpedal function	optional	no
Gear shift detection	no	yes
Weight	< 4 kg	< 4 kg

### **Riding modes**

You have the choice. Five riding modes assist you in individual mobility: Eco, Tour, Sport, Turbo, and Off. The additional walk assistance up to 6 km/h makes your life a little easier.

### Service interval display

An optional feature from your dealer: With the new service interval indicator, you find out in due time when your eBike is due for service. Maintenance performed by your dealer increases safety, maintains value, and extends the service life of your pedelec.



### Intuvia

### The clever control center

With the on-board computer Intuvia, you control your pedelec experience easily and intuitively. The display, which is easy to read even in sunlight, informs you reliably about speed, support mode, battery charge level, and range.

### **Suitable for every riding situation**

Five riding modes assist you depending on your wishes and riding situation: Eco, Tour, Sport, Turbo, and Off. The spectrum ranges from smart support for the greatest possible range in Eco mode to maximum, powerful support in the highest cadences in Turbo mode.

#### Off-board mode

Even when removed from the eBike. Intuvia remains a useful basis information source that makes it possible for you to view all your tour information.

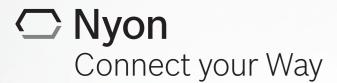
### **Charging mobile devices**

Using the integrated micro-USB interface, you can charge mobile devices such as your smartphone while you are on the go.

#### **Shift recommendation**

Your system detects whether you are in the optimum efficiency range and recommends a higher or lower gear – using simple arrow symbols. The result: a more pleasant riding experience and the greatest possible range.







The all-in-one on-board computer is rugged and adapted to the needs of eBikers. Control is intuitive using the 5-way joystick on the device or – during the ride – on the separate control unit.

Large display, characteristic screen design, concise presentation. The transreflective 4.3-inch color display is readable in all lighting conditions.

## The all-in-one on-board computer for the eBike

Everything you need for a fascinating eBike experience is in view and ready to be accessed. Navigation, riding data, range, fitness, incoming text messages, and much more: Nyon supports you from route planning to the tour to the evaluation of your activities with additional features and custom options. Nyon marks the beginning of a new era: the first fully networked ecosystem of the industry.



### Intelligently networked

### Welcome to the world of Bosch eBike Systems

By connecting with the smartphone app *eBike Connect* and the online portal *eBike-Connect.com*, Nyon provides access to the fascinating world of Bosch eBike Systems. It offers numerous features that provide useful insights from data and make eBiking into a completely personalized experience. Welcome!



### Smartphone app eBike Connect

Through custom adjustments in the smartphone app *eBike Connect*, you make Nyon into your personal eBike assistant. You configure the screen or refine the settings of your riding modes just as you wish with our premium feature. Data is exchanged via Bluetooth.

#### Online portal

The Bosch online portal *eBike-Connect.com* creates your own personal *eBike* information profile for you. You plan and analyze customized tours in the portal, with an overview of times, elevation gain and loss, distance, and your fitness. Or you import a GPX track and transmit it to Nyon via the portal.

### Your personal eBike assistant

### Nyon features overview











All of the most important information relevant to riding at a glance. Speed, riding mode, cadence, range, and much more: You decide for yourself what data is displayed on your Ride screen. And the size and order of presentation is according to your wishes.

Plan your route online, on your smartphone, or on the on-board computer itself. With intuitively understandable, distinctive symbols, Nyon takes you on the most scenic or fastest eBike routes.





Nyon turns your pedelec into your own personal trainer. The on-board computer measures fitness-relevant data such as cadence and pedaling power. And Nyon calculates how effectively you are exercising based on your body data. If you wear a chest strap, Nyon even takes your cardiovascular values into account in this calculation. In this way you have all the information for supporting you in maintaining and

improving your fitness and health over the long term.



Smartphone function

A pop-up informs you via Bluetooth regarding arrival of a new SMS on your smartphone and the sender. In this way you are always up to date – no matter where your eBike adventure takes you.



### **eShift**

### Solutions for integrated gear shifting

The integrated electronic gear shifting solution for those who like to focus on what is essential in eBiking – riding enjoyment. The innovative concept provides greater riding comfort, more safety, and – due to a gear ratio that is always optimal – even more range. eShift is available in three variants optimized for different riding styles.

### **eShift with NuVinci Optimized™ Harmony H|Sync™ NuVinci** CYCLING

The cadence-based, continuously variable automatic transmission for the eBike. Whether at full acceleration downhill or when ascending – the rider pedals constantly at the selected frequency of between 30 and 100 revolutions per minute. The continuously variable gearbox provides for this. Those who want to pedal more quickly or slowly adjust the cadence at the press of a button.

#### eShift with SRAM DD3 Pulse

#### SRAM.

The speed-dependent shifting solution combines a 3-speed hub system with a manual derailleur system. The gear hub selects the gear automatically according to your speed. Fine adjustments are made manually on the derailleur system. Because the hub automatically shifts back when the rider comes to a stop, starting up is noticeably easier.

### eShift with Shimano Di2

#### SHIMANO

Fast, sporty, efficient: eShift with Shimano Di2 shifts your pedelec like a sports car. Touching the Shimano shift paddle is sufficient for quick and dynamic gear shifting. In manual mode the gearshift recommendation helps you to always make optimal use of the battery. With the Auto-Downshift function, the gear system automatically switches to the defined starting gear – increasing safety and riding comfort.



### Auto-Downshift when stopping with Shimano Di2





Riding with speed





Stop: eShift automatically shifts down





Starting up in low gear

### **PowerPacks**

### Your reliable energy source

Select the battery that suits you. Bosch PowerPacks for the Active Line are available with 300, 400, and now also 500 Wh as a frame or rack battery. Common to all is their high energy density, exceptional mileage, long service life, low weight, and easy handling.

### Best in class: There's nothing lighter

Bosch PowerPacks are the batteries with the best balance of performance, size, and weight. How do you benefit? You get a powerhouse that is so light that its weight is practically negligible during riding.

### Simply ingenious: The handling

Thanks to the ergonomically well-conceived handle and optimal mount, the batteries can be easily inserted and removed. The only thing easier is charging the PowerPacks directly on the eBike.

### High mileage and long life

The integrated Battery Management System (BMS) reliably protects the battery from overcharging, undervoltage, overheating, and short circuit. A long service life with high mileage is guaranteed.

### Easy to store, optimally charged – anytime and anywhere

Lithium-ion batteries have neither memory nor self-discharge effects. This means the PowerPacks can also be partially recharged at any time – without affecting the service life.





approx. 2 hours.

	PowerPack 500	
Mounting type	Frame battery	Rack battery
Voltage	36 V	36 V
Capacity	13.4 Ah	13.4 Ah
Energy content	500 Wh	500 Wh
Weight	2.6 kg	2.7 kg
Size	325 × 92 × 90 mm	372 × 122 × 80 mm

	PowerPack 400	
Nounting type	Frame battery	Rack battery
oltage	36 V	36 V
apacity	11.0 Ah	11.0 Ah
nergy content	400 Wh	400 Wh
Veight	2.5 kg	2.6 kg
ize	325 × 92 × 90 mm	372 × 122 × 80 mm

	PowerPack 300	
Nounting type	Frame battery	Rack battery
oltage	36 V	36 V
apacity	8.2 Ah	8.2 Ah
nergy content	300 Wh	300 Wh
Veight	2.0 kg	2.4 kg
ize	325 × 92 × 82 mm	372 × 122 × 80 mm



## Range of the PowerPacks

#### Ideal conditions\*\*

Flat terrain, approx. 15 km/h average speed, no headwind, approx. 20 °C ambient temperature, high-quality bike components, tire tread and pressure with minimal rolling resistance, experienced eBike rider (always shifts gears correctly), additional weight (excluding bike weight) < 70 kg.

#### ■ Favorable conditions\*\*

Slightly hilly terrain, approx. 20 km/h average speed, slight headwind, approx. 10 °C to 20 °C ambient temperature, medium-quality bike components, tire tread and pressure with average rolling resistance, favorable cadence, eBike rider shifts correctly most of the time, additional weight (excluding bike weight) 70 kg to 80 kg.

#### ■ Difficult conditions\*\*

Terrain with long and steep inclines at 25 km/h average speed, possibly strong headwind, < 10 °C ambient temperature, bicycle components with relatively low efficiency, tire tread and pressure with increased rolling resistance, unfavorable gear selection / cadence, additional weight (excluding bike weight) > 85 kg.

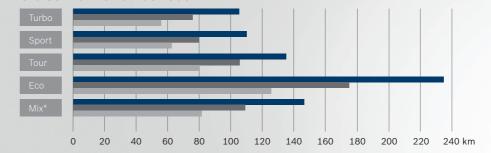
- \* Average of combined use of all four modes.
- \*\* The calculated ranges are typical values which can be reduced if any of the conditions listed below worsen. The actual range of the eBikes is the responsibility of the eBike manufacturer.

Click here for the range calculator:

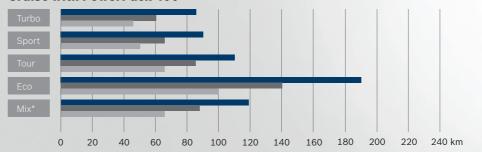
www.bosch-ebike.com

You can find out everything worth knowing about the PowerPack in the eBike battery guide.

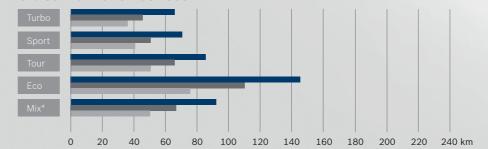
#### Cruise with PowerPack 500



#### Cruise with PowerPack 400



#### Cruise with PowerPack 300





### Charger

### Faster charging made easy

Bosch Chargers are compact, lightweight, and rugged. And above all, really fast. To allow you to enjoy your eBike experience without interruption, you do not necessarily need 230 volts: While traveling you can charge your eBike with the Travel Charger on the cigarette lighter of a car or motorhome.



An empty PowerPack 300 is fully charged within 2.5 hours, while a PowerPack 400 requires 3.5 hours for this. The new PowerPack 500 is fully charged within 4.5 hours. Approx. 1 hour is required to charge the PowerPack 300 up to half, 1.5 hours for the PowerPack 400. It takes approx. 2 hours to charge the PowerPack 500 to 50%.

### **Compact and lightweight**

The Bosch eBike Charger is only about as big as a water bottle and very lightweight, at just under 800 grams.



Туре	Standard Charger
Charging current	4 A
Voltage range	230 V
Size	190 × 86 × 54 mm
Cable lengths	AC input: approx. 1.5 m, DC output: approx. 1.0 m
Plug	Country-specific power plug
Weight	Approx. 800 grams
Compatibility	Compatible with Active Line and Performance Line, compatible with Classic+ Line via adapter plug (optional part)
Charging time	300 Wh 50 % in approx. 1 h, 100 % in approx. 2.5 h 400 Wh 50 % in approx. 1.5 h, 100 % in approx. 3.5 h 500 Wh 50 % in approx. 2 h, 100 % in approx. 4.5 h

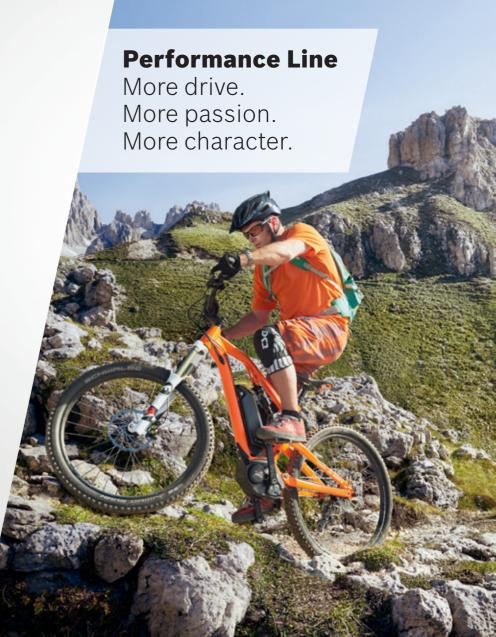
Туре	Travel Charger
Charging current	2 A
Voltage range	12 V
Size	190 × 86 × 54 mm
Cable lengths	DC input: approx. 1.0 m, DC output: approx. 1.0 m
Plug	12 V cigarette lighter + 12 V on-board power socket (via adapter cap)
Weight	Approx. 500 grams
Compatibility	Compatible with Active Line and Performance Line, compatible with Classic+ Line via adapter plug (optional part)
Charging time	300 Wh 50 % in approx. 2.1 h, 100 % in approx. 5 h 400 Wh 50 % in approx. 2.8 h, 100 % in approx. 6.5 h 500 Wh 50 % in approx. 3.5 h, 100 % in approx. 7.5 h

### Functional, rugged, and silent

An ergonomically shaped plug facilitates handling, and the very compact dimensions make the unit easy to stow in your luggage. The closed housing makes the Charger rugged and resistant to dirt.

### When traveling: The Travel Charger

With the Travel Charger, you can charge your eBike on the move – using the cigarette lighter or the 12 V power socket of your car or motorhome. Clever: The device weighing barely 500 g has integrated discharge protection for the car battery.





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